

FIG. 1

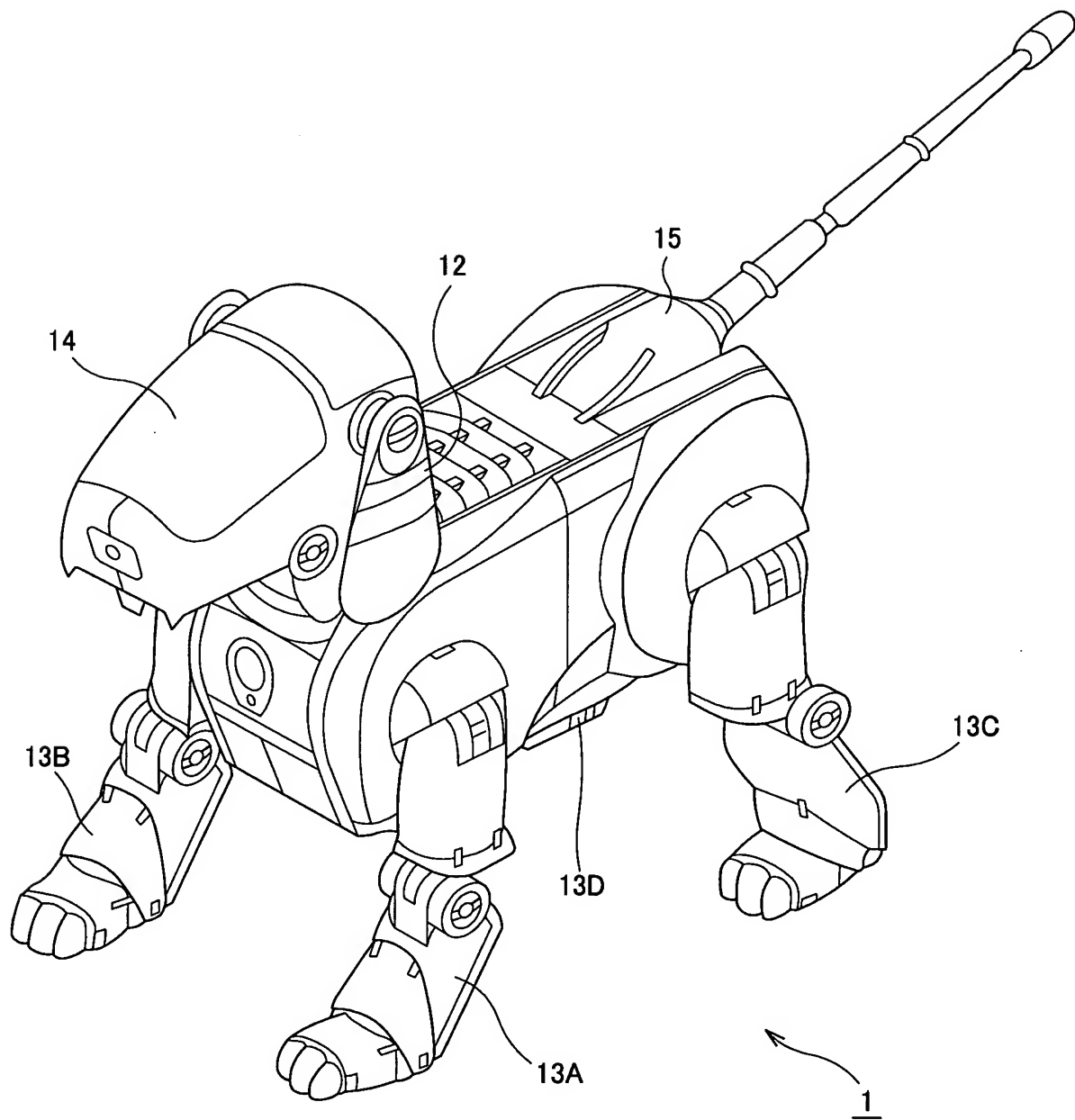


FIG.2

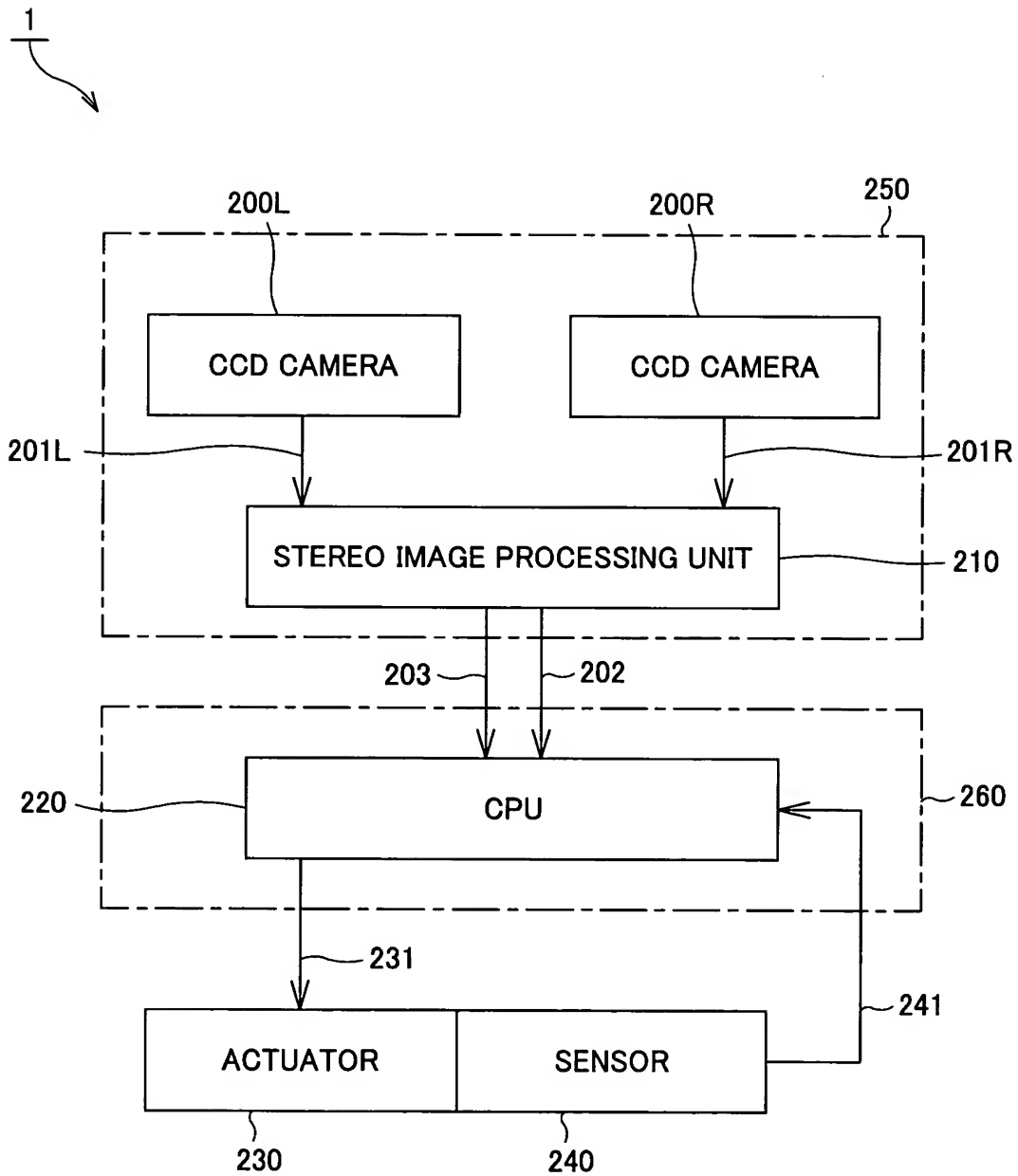


FIG.3

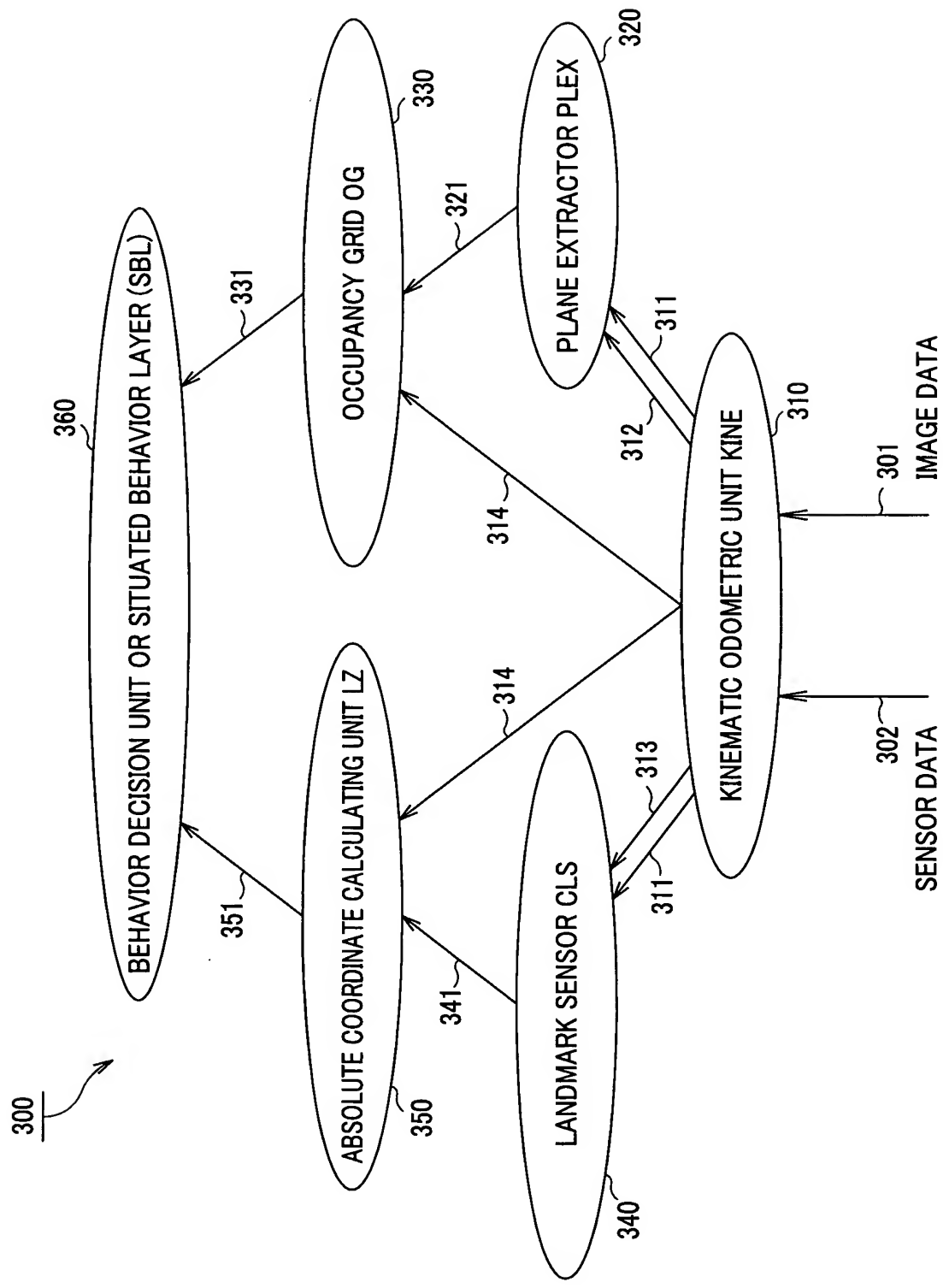


FIG.4

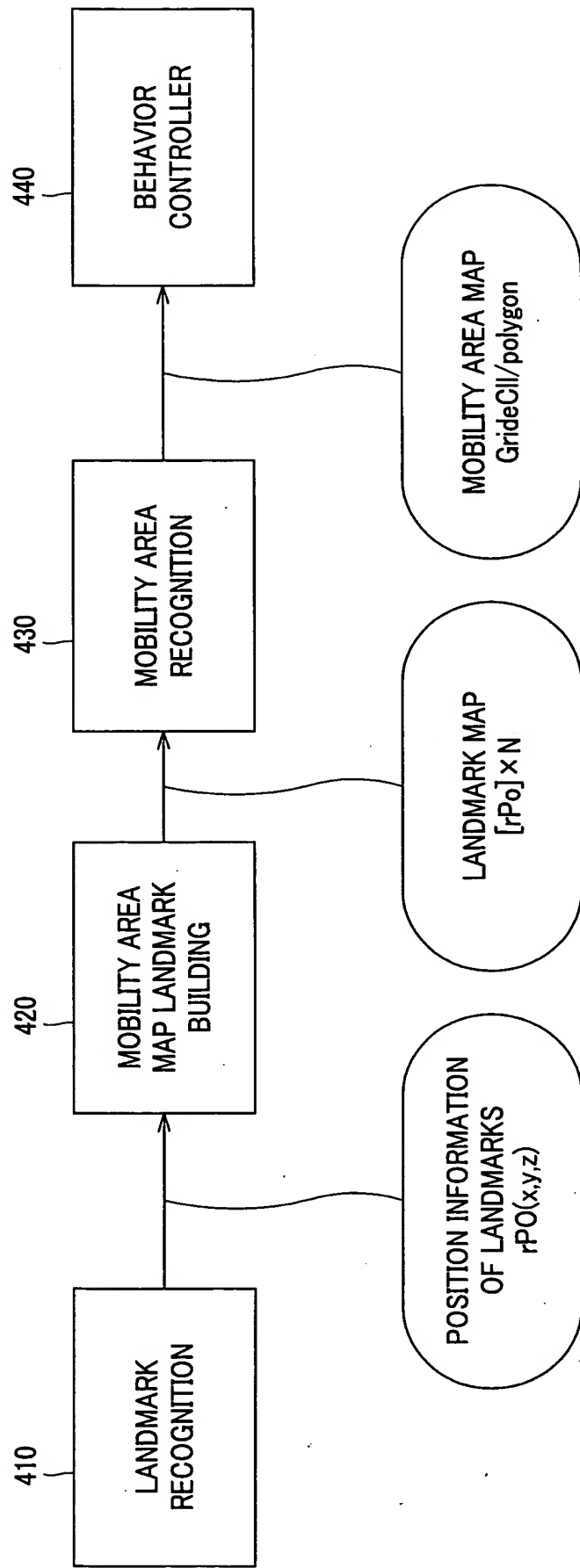


FIG.5

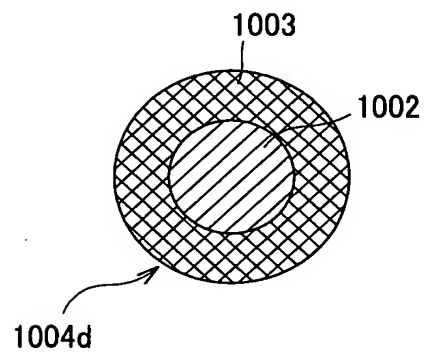
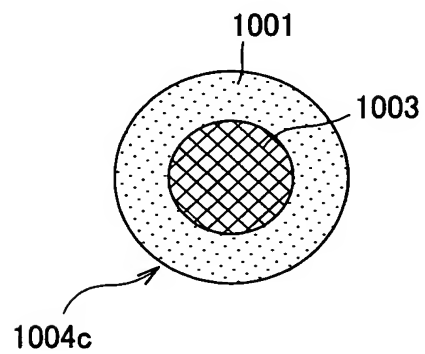
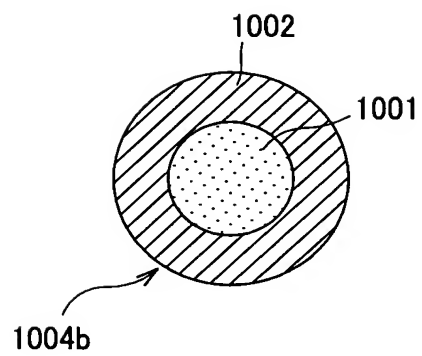
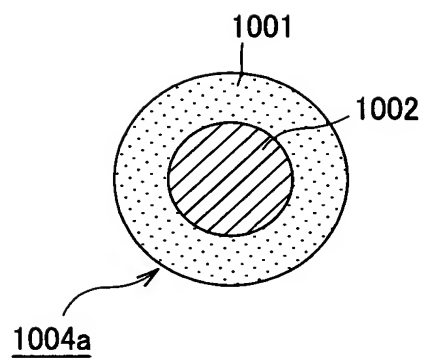
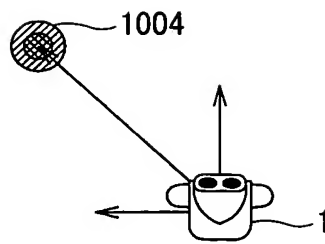
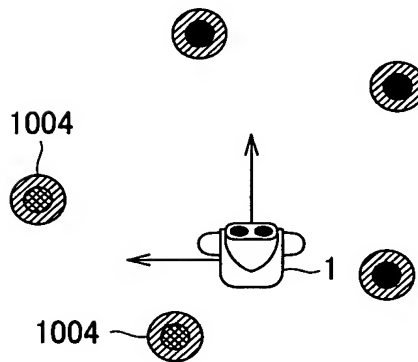


FIG.6



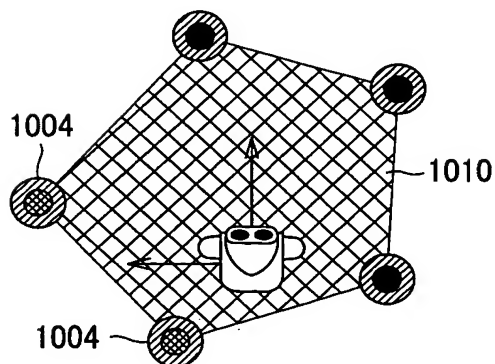
Landmark Information

FIG.7A



Landmark Map

FIG.7B



Mobility Map

FIG.7C

FIG.8A

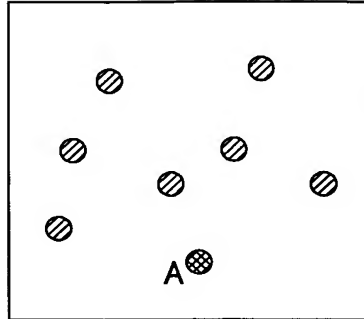


FIG.8B

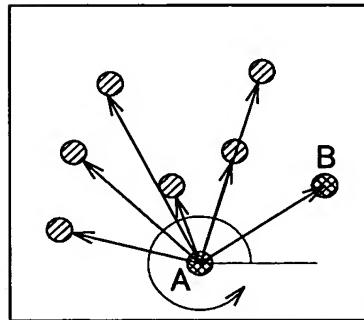


FIG.8C

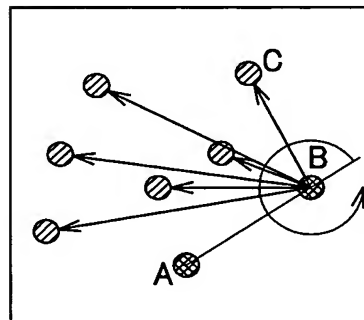
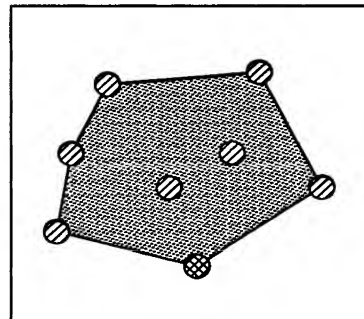


FIG.8D



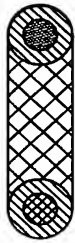


FIG. 9A

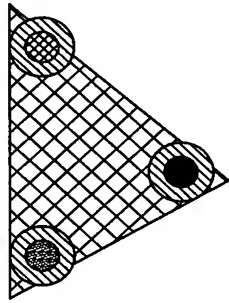


FIG. 9B

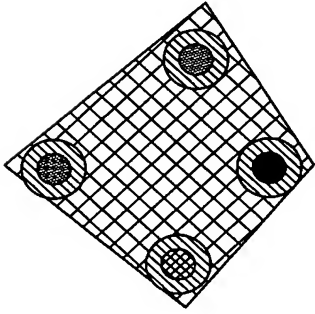


FIG. 9C

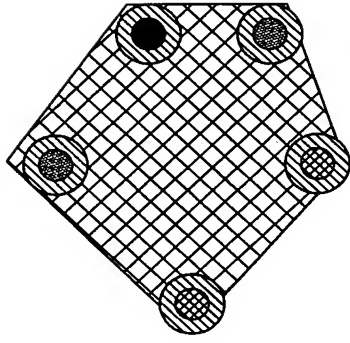


FIG. 9D

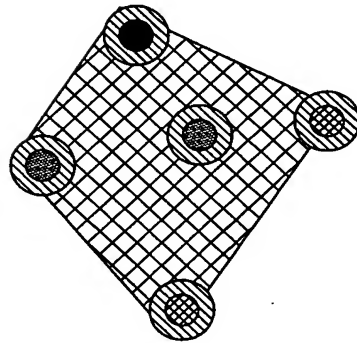


FIG. 9E

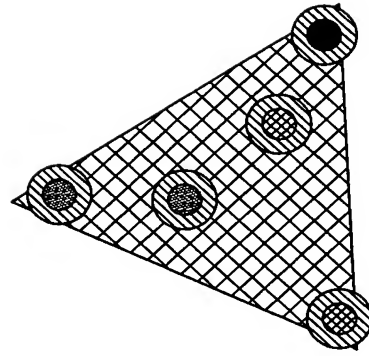


FIG. 9F

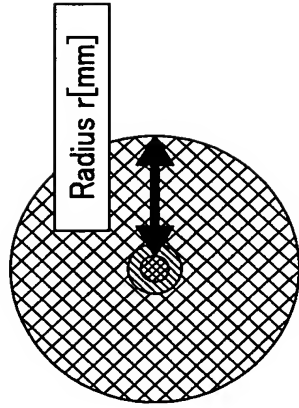


FIG.10A

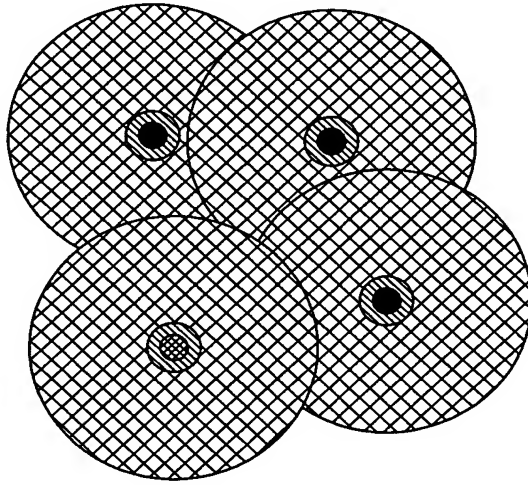


FIG.10B

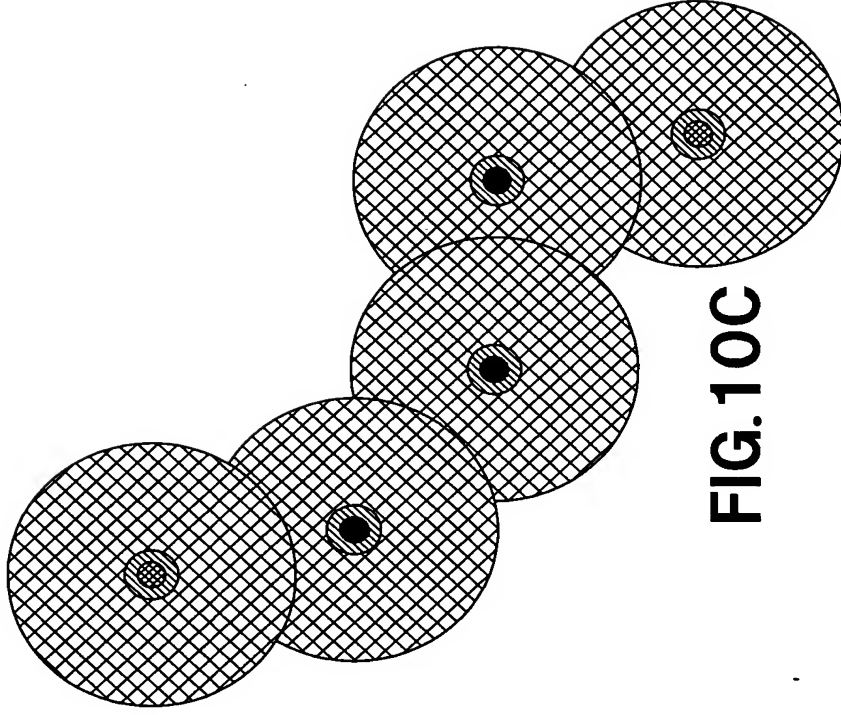


FIG.10C

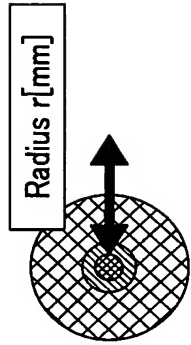


FIG. 11A

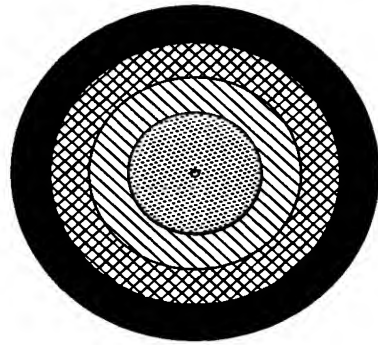


FIG. 11C

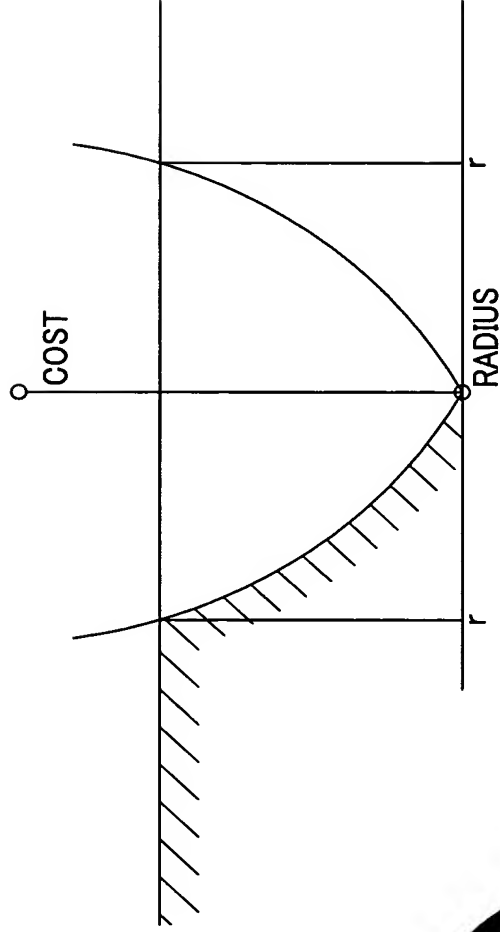
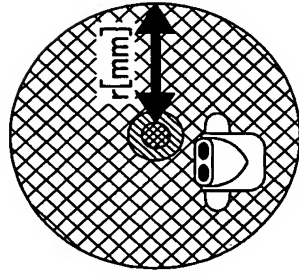


FIG. 11B

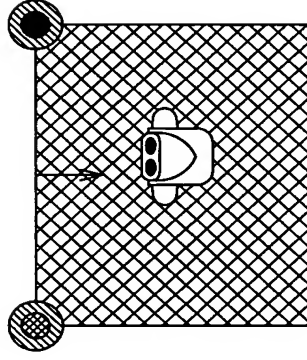
N=1



AREA METHOD

FIG.12A

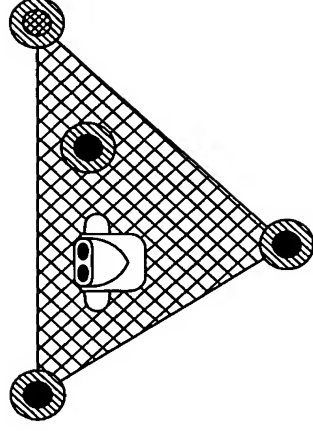
N=2



ROBOT SIDE

FIG.12B

N>2



CONVEX CLOSURE

FIG.12C

221 OBSTACLE RECOGNITION DEVICE

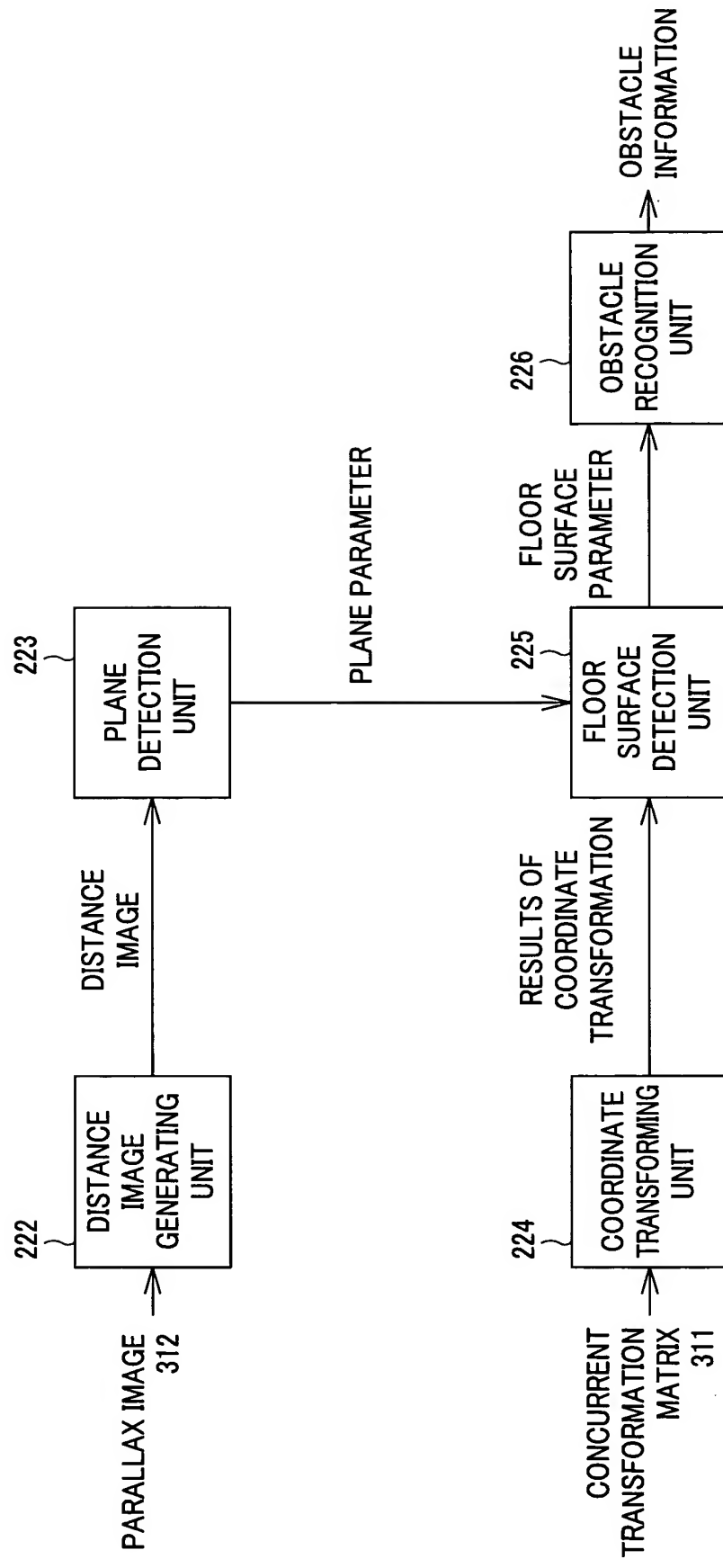
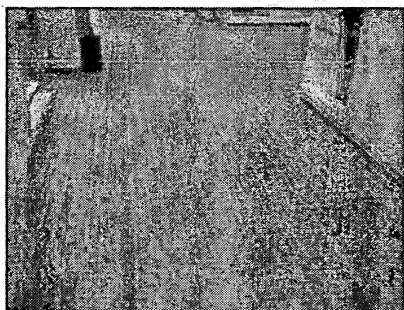
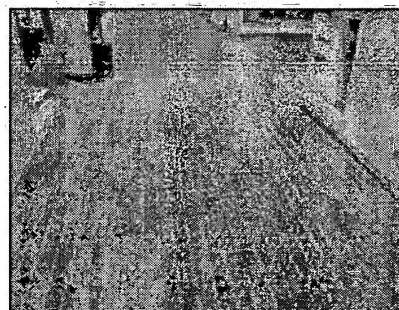


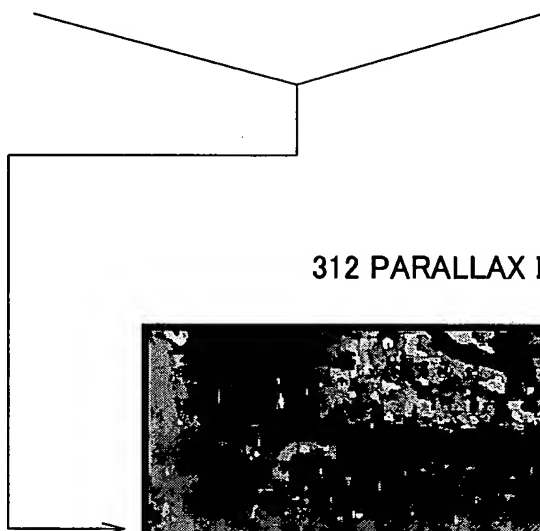
FIG.13



201L LEFT-EYE IMAGE



201R RIGHT-EYE IMAGE



312 PARALLAX IMAGE

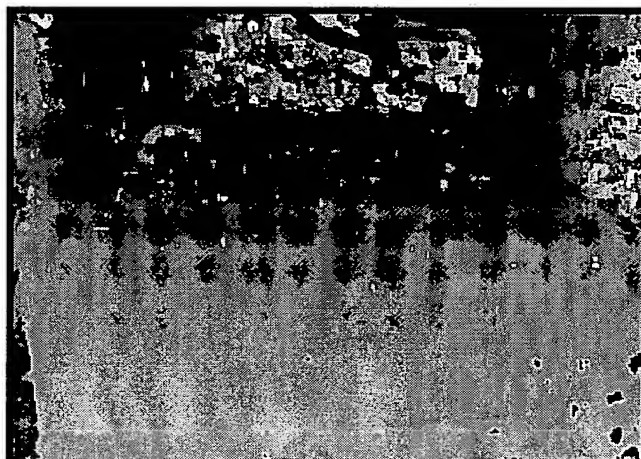


FIG. 14

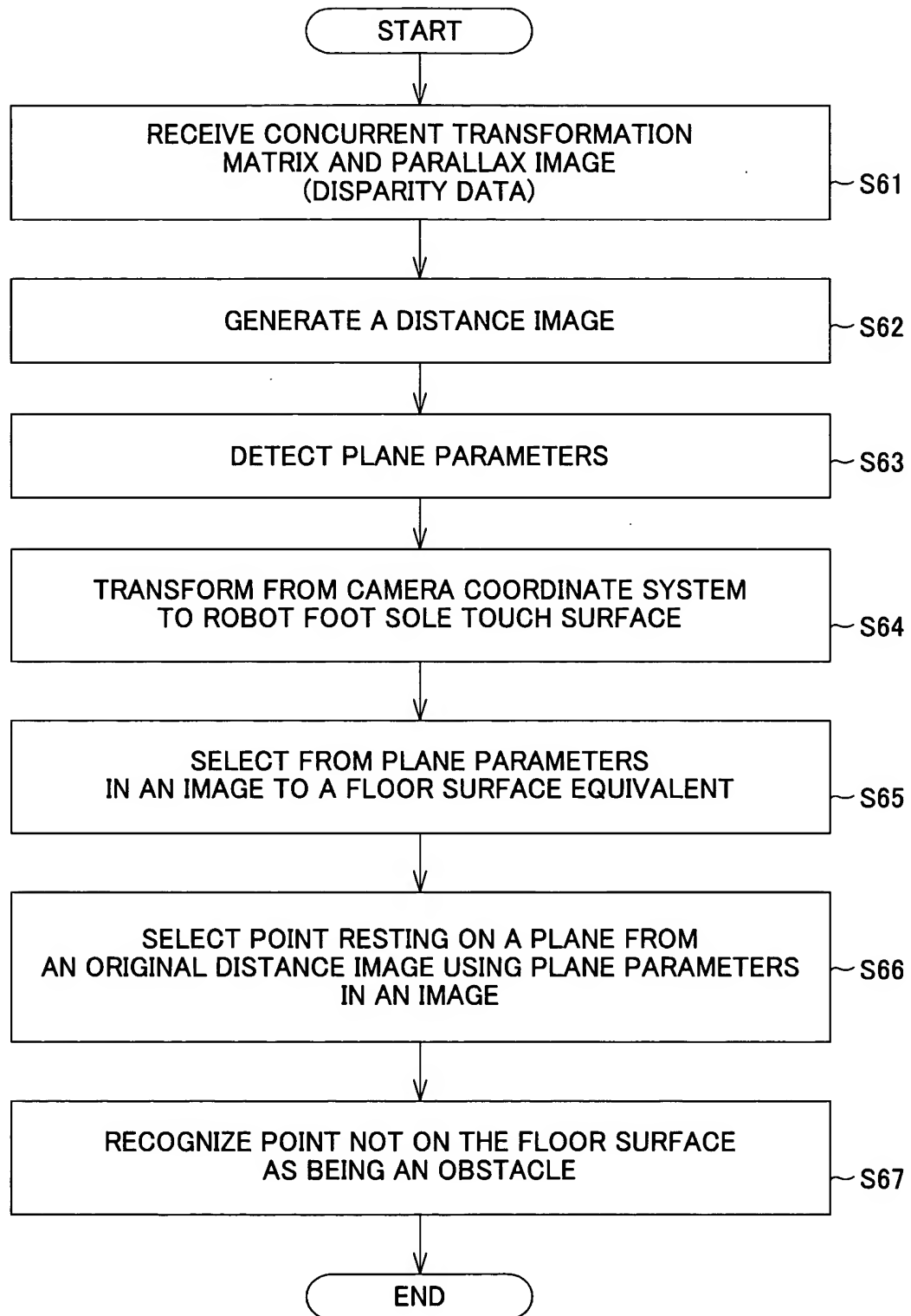


FIG.15

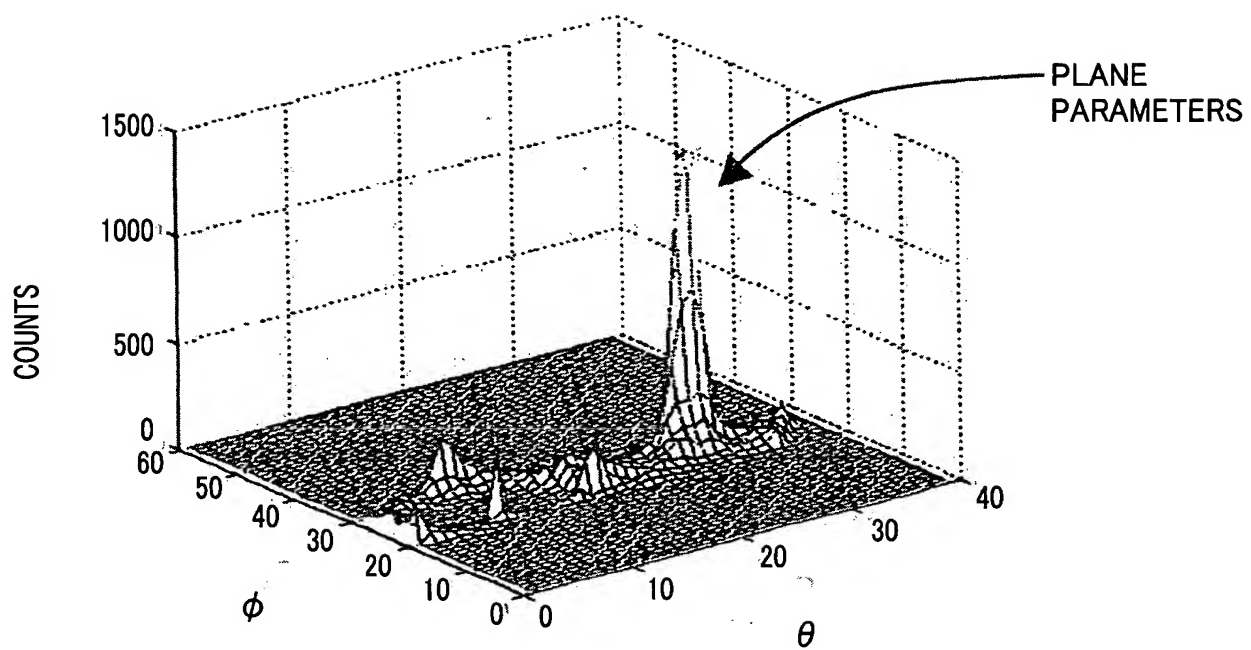


FIG. 16

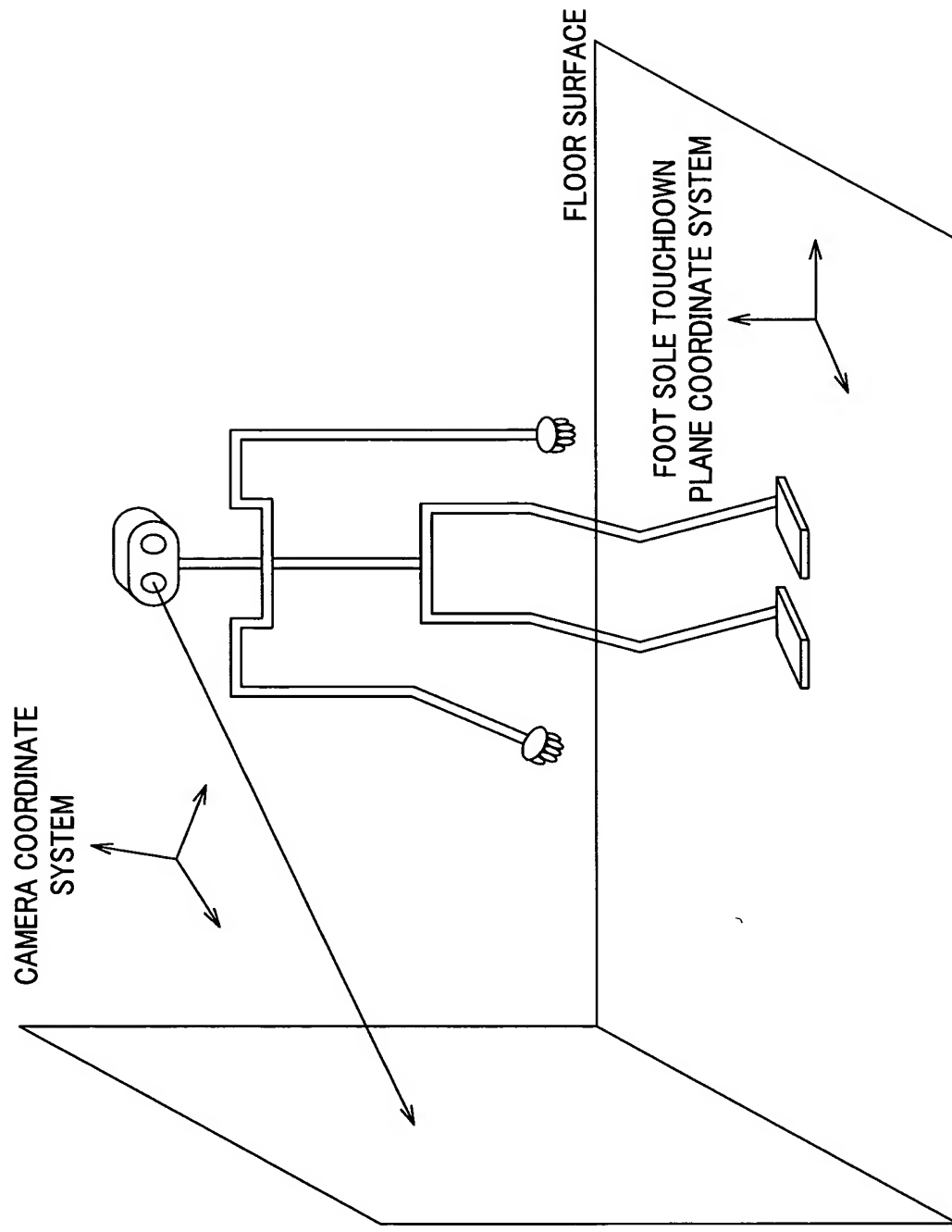
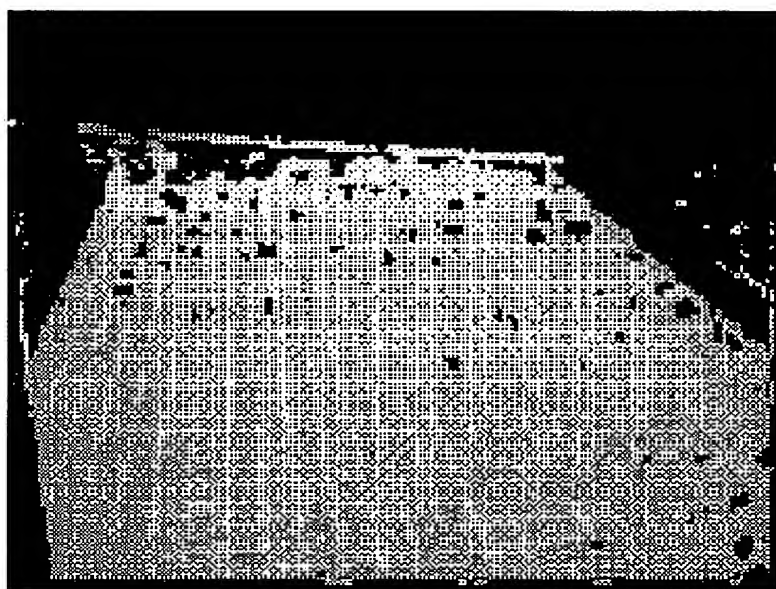
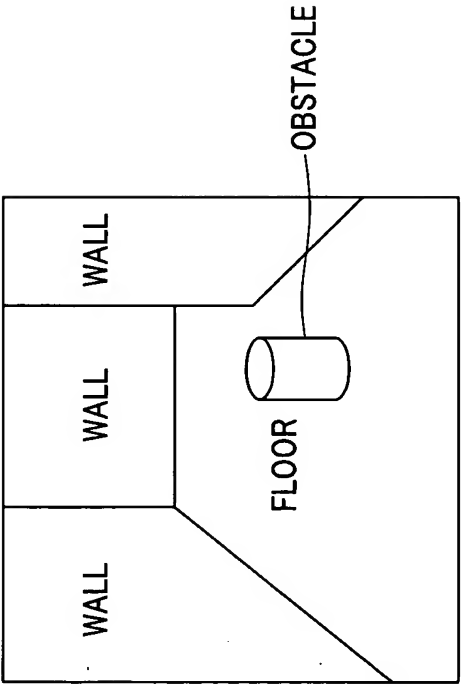


FIG.17



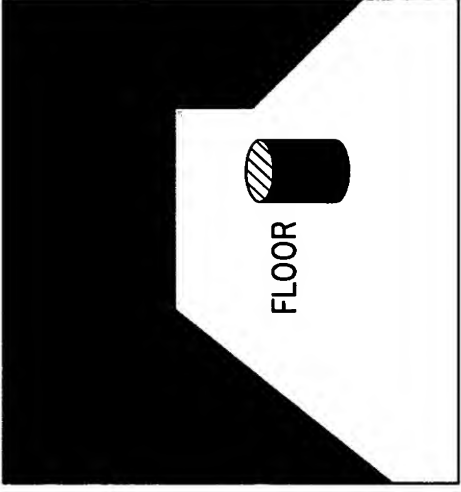
Dth=10mm

FIG. 18



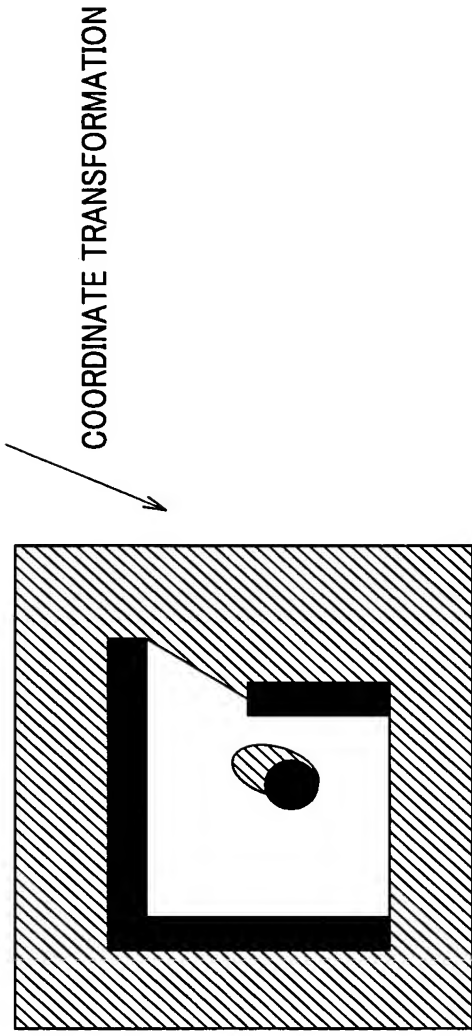
ROBOT VIEW

FIG. 19A



FLOOR SURFACE EXTRACTION

FIG. 19B



EXPRESSION ON FLOOR SURFACE

FIG. 19C

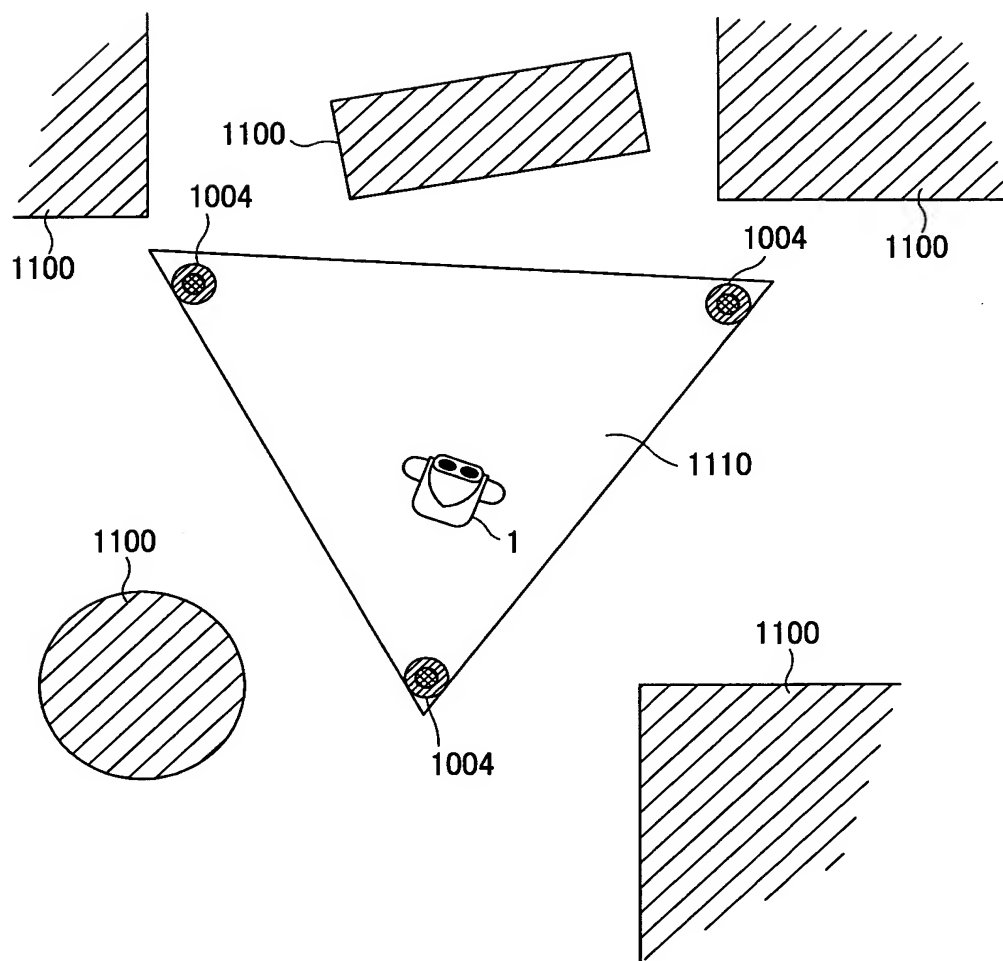


FIG.20

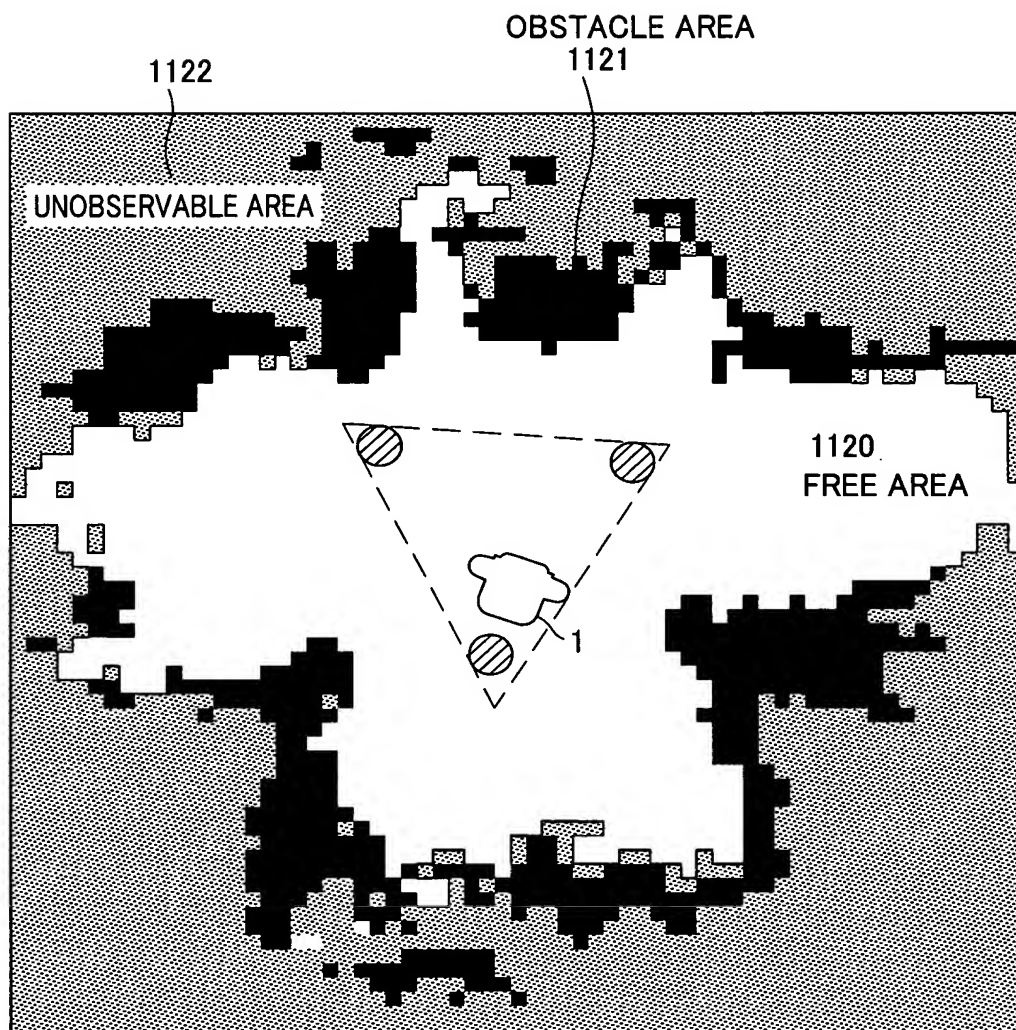


FIG.21

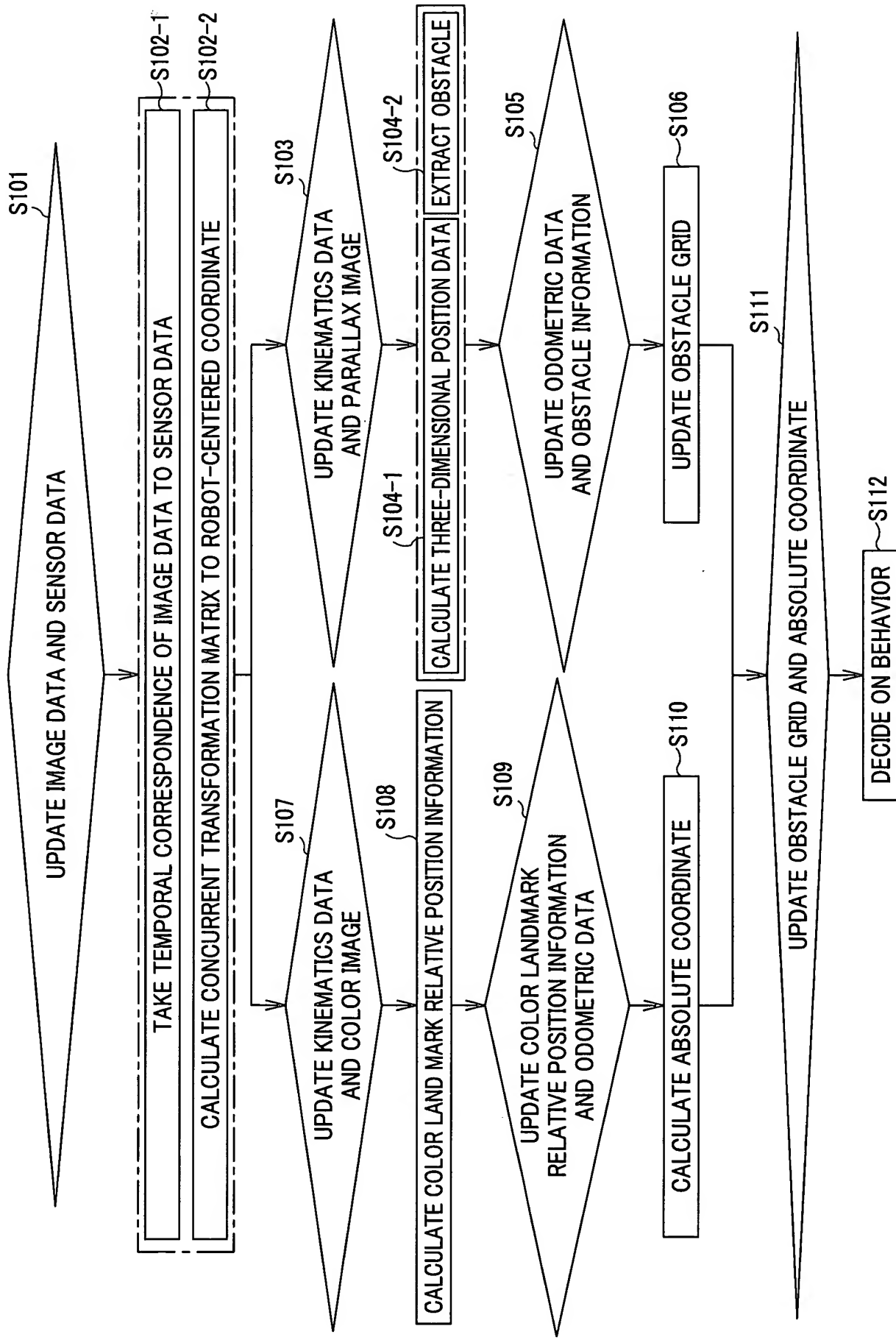


FIG.22

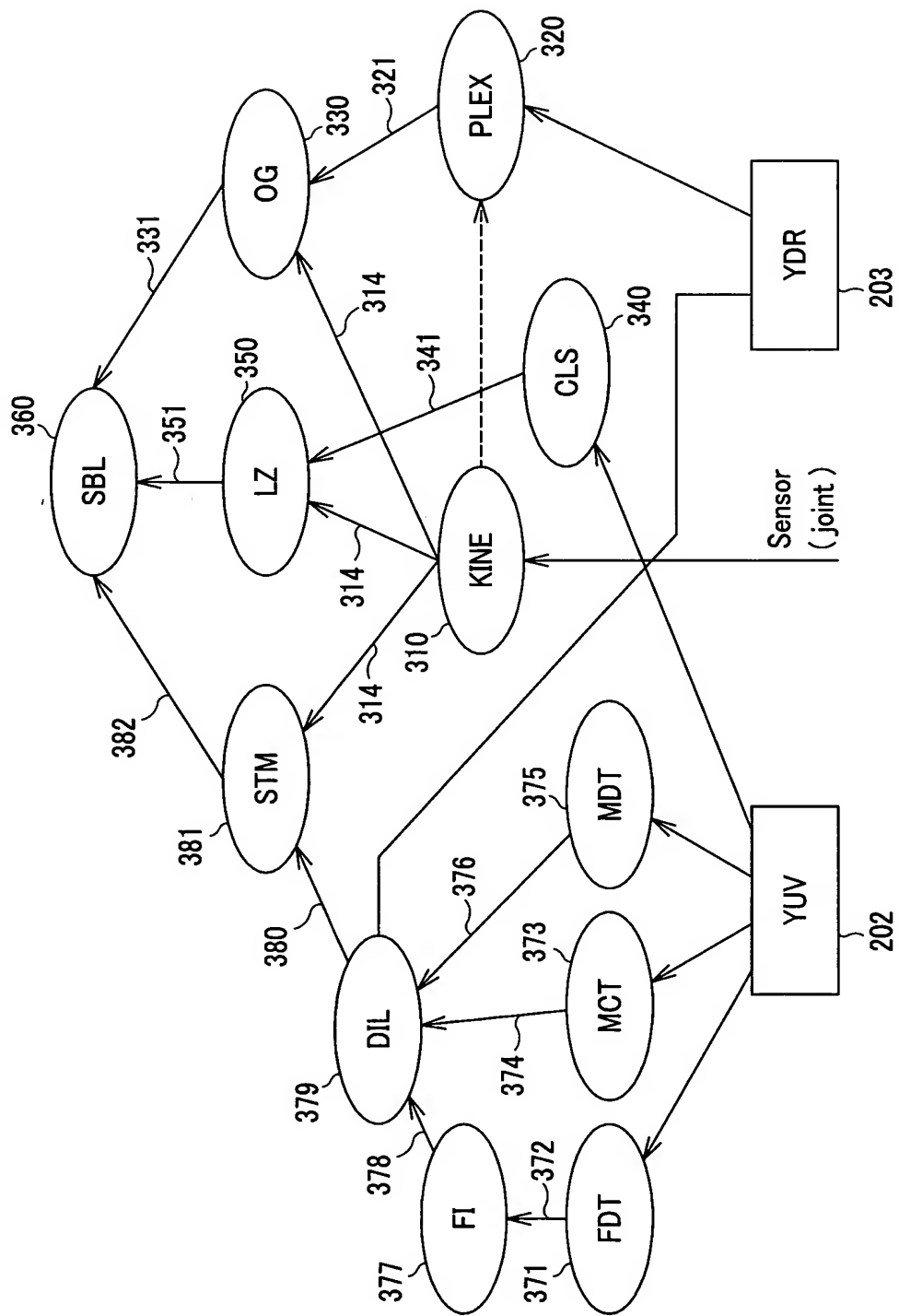


FIG.23

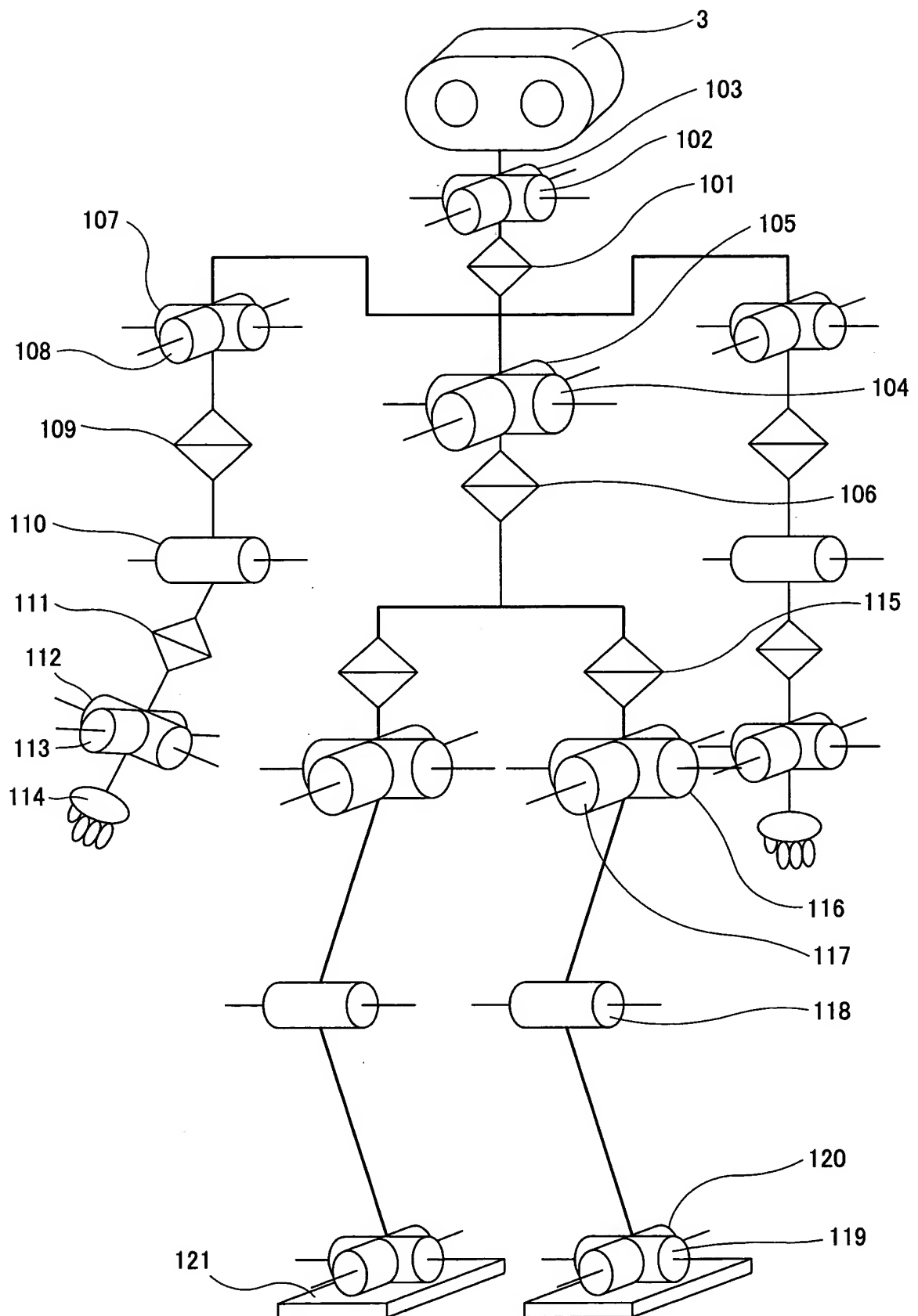


FIG.24

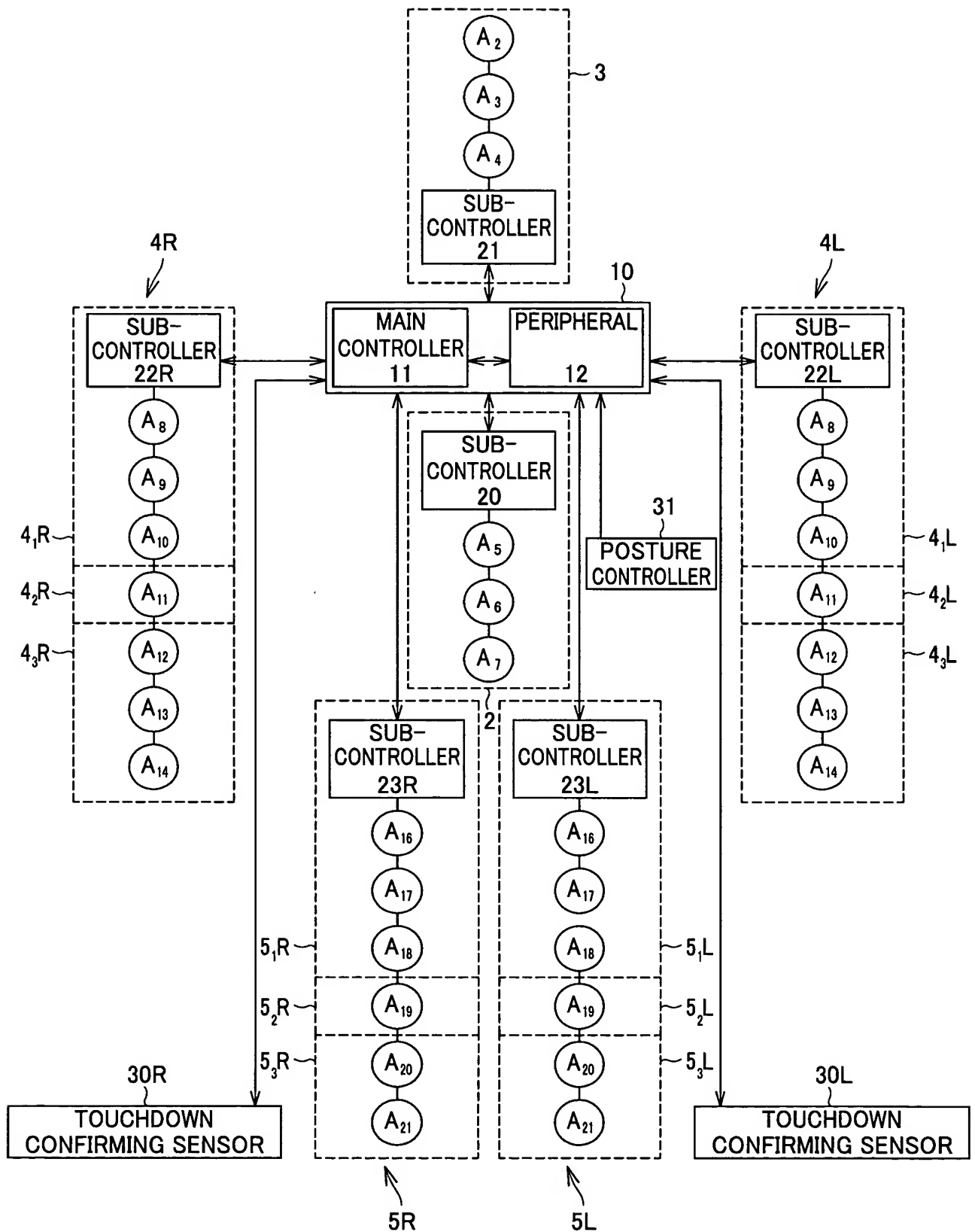


FIG.25

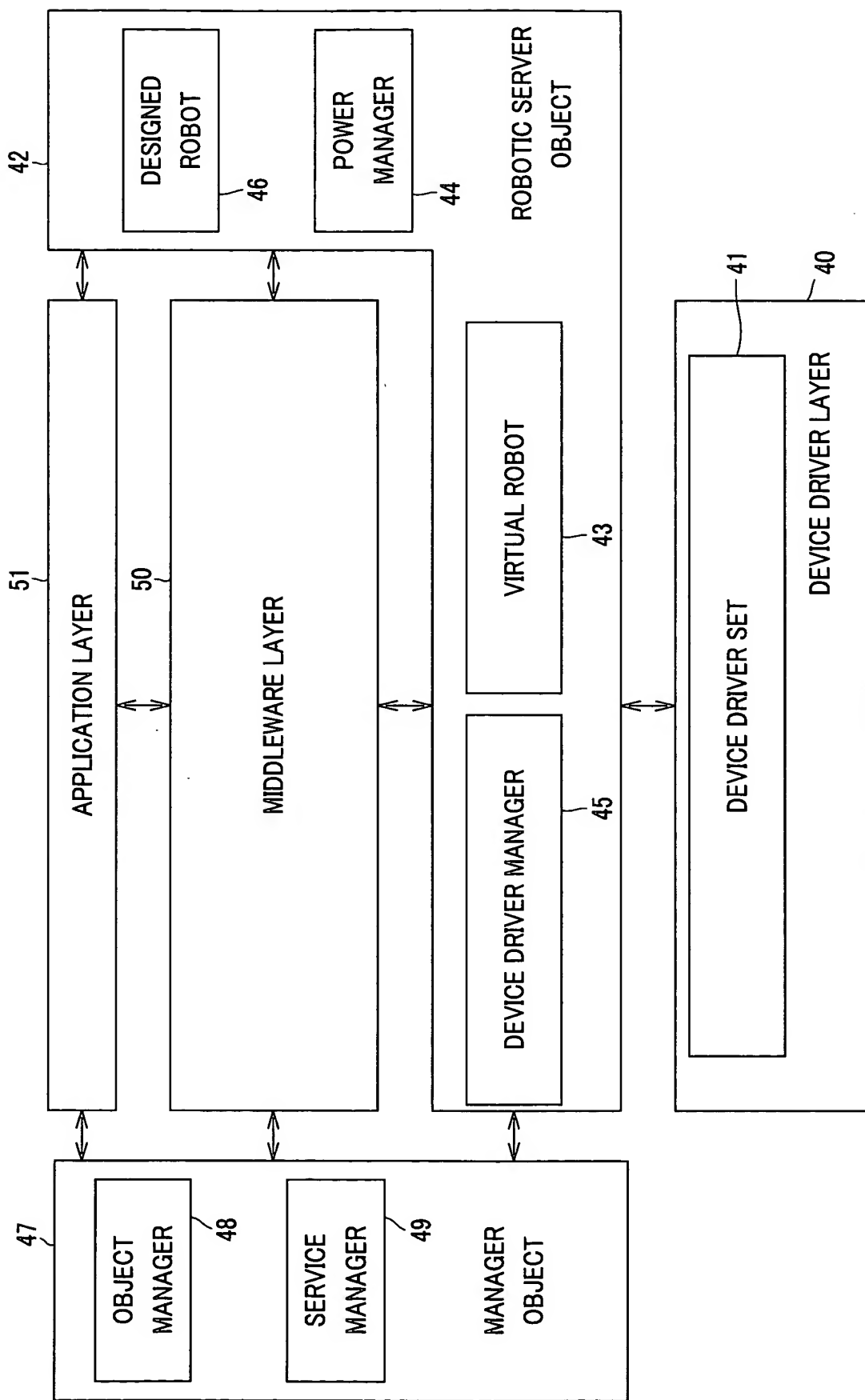


FIG.26

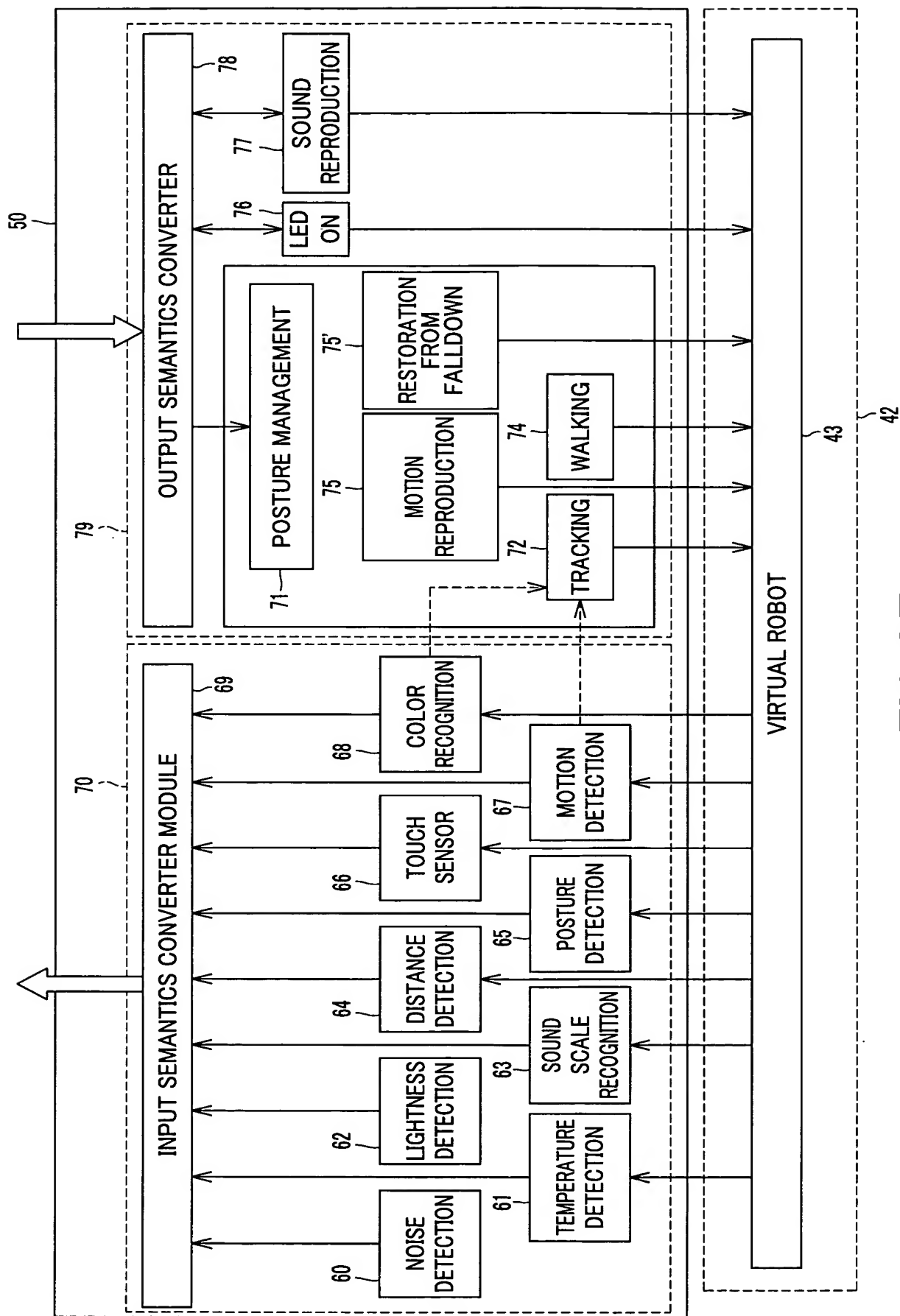


FIG.27

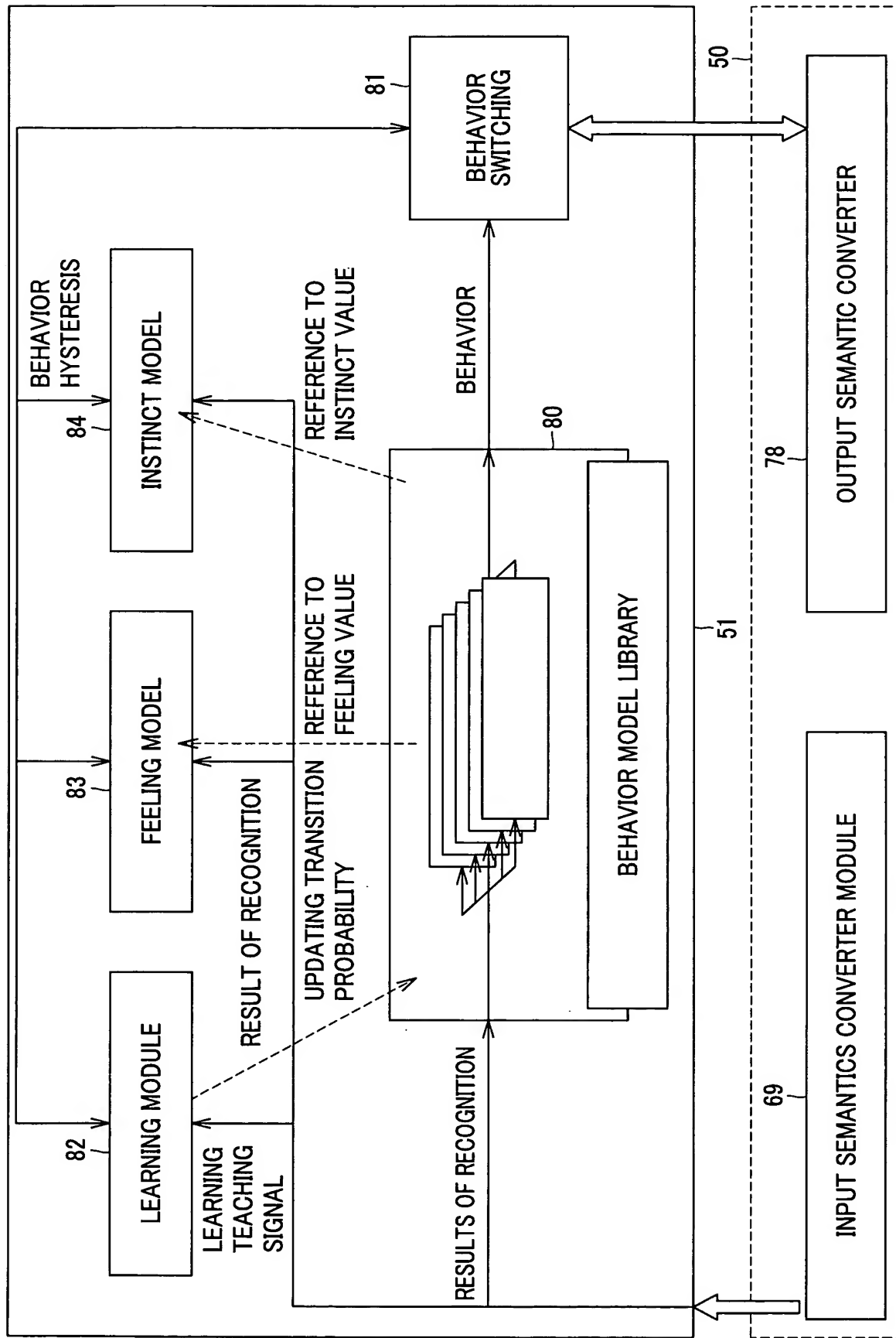


FIG.28

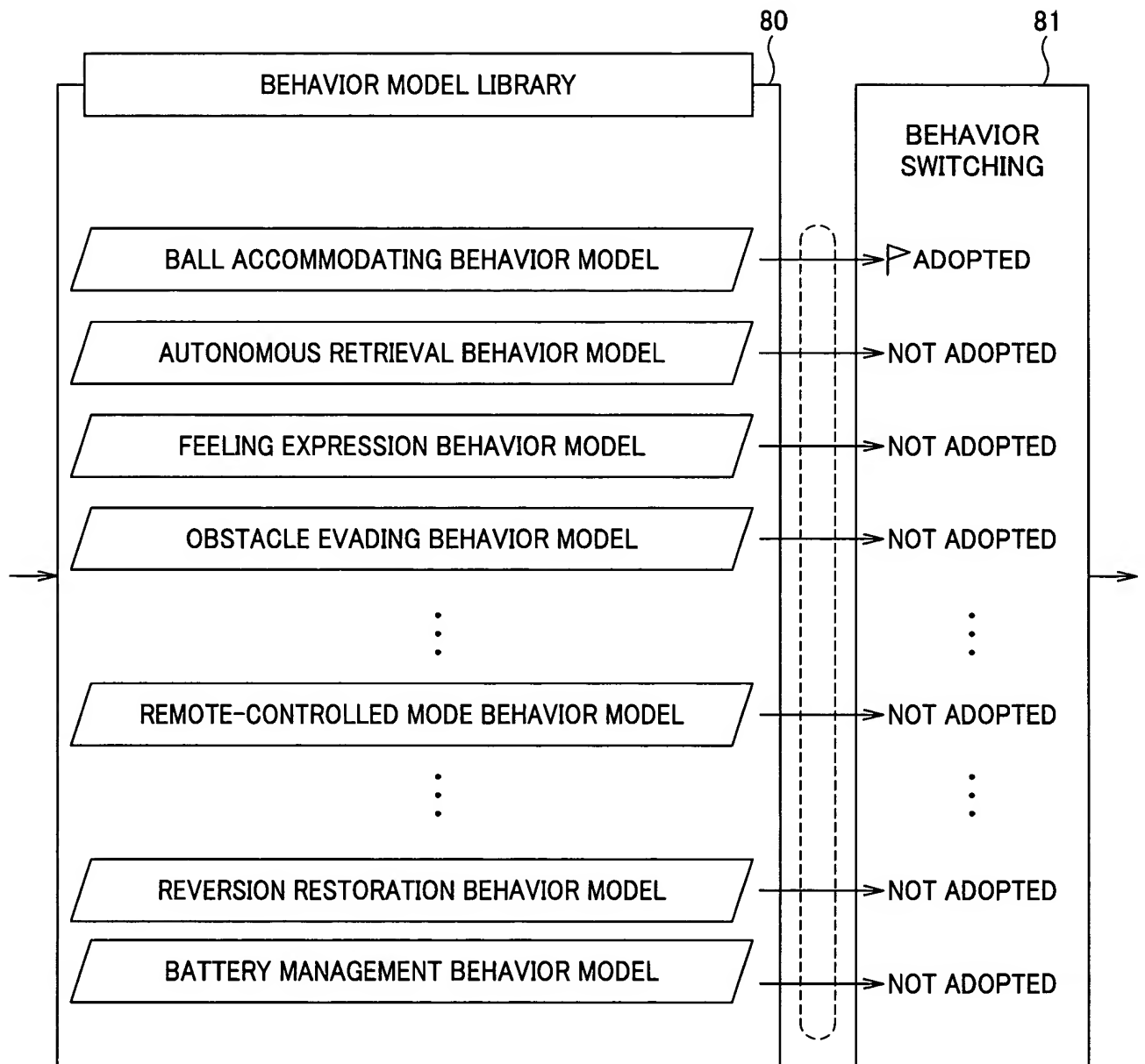


FIG.29

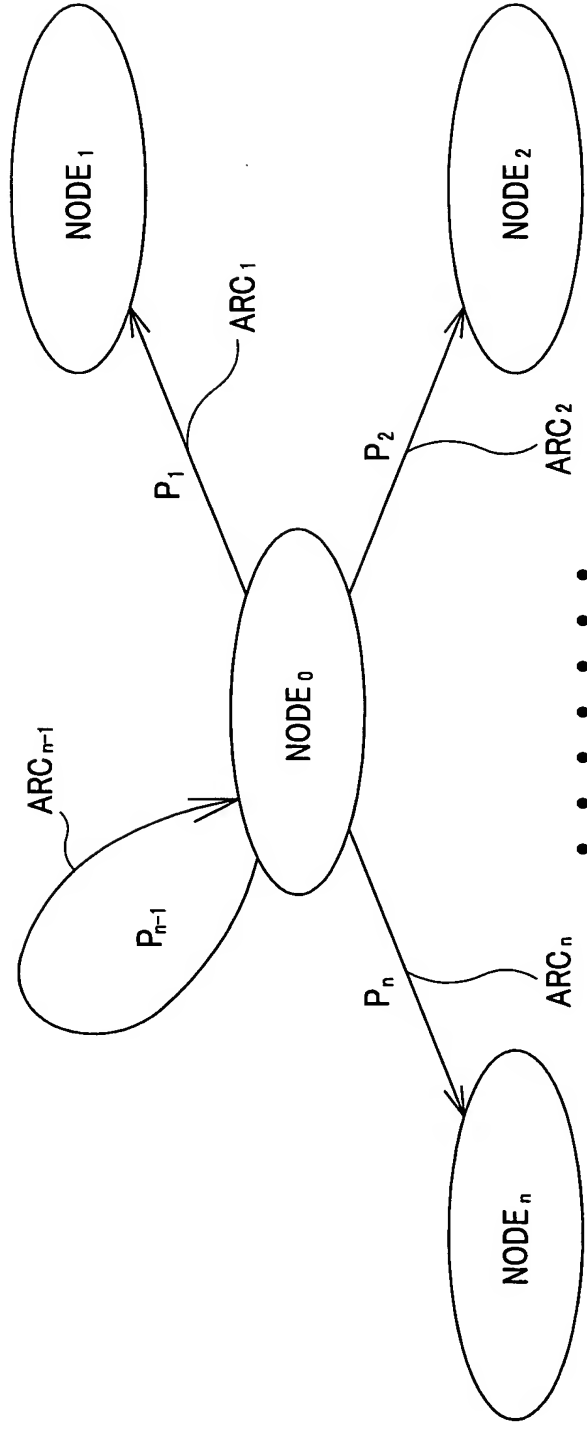


FIG.30

	INPUT EVENT NAME	DATA NAME	DATA RANGE	PROBABILITY OF TRANSITION TO OTHER NODES					
node 100				A	B	C	D	n	
NODE OF TRANSITION DESTINATION				node 120	node 120	node 1000		node 600	
OUTPUT BEHAVIOR				ACTION 1	ACTION 2	MOVE BACK		ACTION 4	
1	BALL	SIZE	0.1000	30%					
2	PAT				40%				
3	HIT				20%				
4	MOTION					50%			
5	OBSTACLE	DISTANCE	0.100			100%			
6		JOY	50.100						
7		SURPRISE	50.100						
8		SADNESS	50.100						

FIG.31